

# IRD TCC TOLL AUDIT SYSTEM

*Low Cost Toll Audit System to  
Maximize Toll Revenues*



**I n t e r n a t i o n a l   R o a d   D y n a m i c s   I n c .**

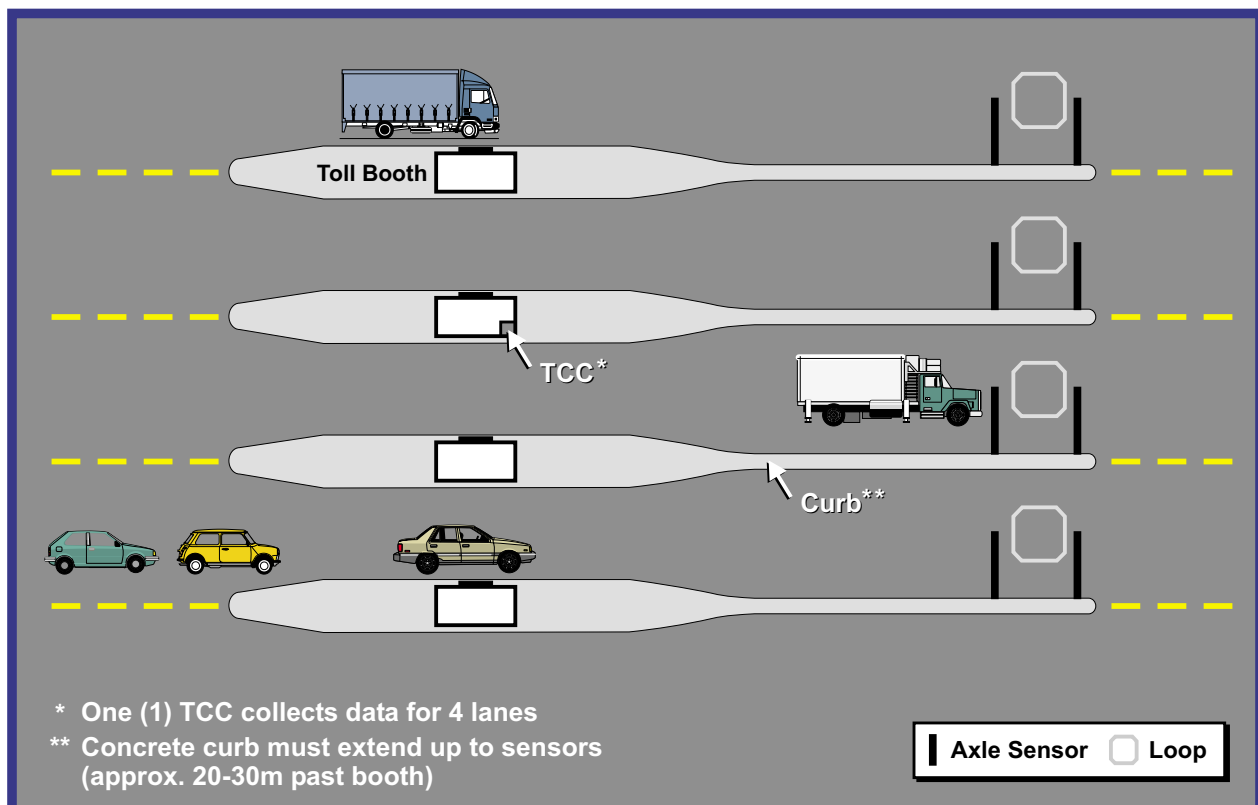
# IRD TCC Toll Audit System

The IRD TCC (Traffic Counter/Classifier) Toll Audit System is the **first low cost system** designed to provide accurate and reliable traffic data at toll plazas. The TCC system allows the concession owner & toll operator to monitor the traffic count and classification information for each lane in a plaza, and to match this information to a set time period, such as the duration of an operator's shift. The information collected is then used by the operator to cross check the actual revenue collected, as compared to what they would expect given the detected traffic. The system is a valuable tool to audit toll revenues and helps to control and monitor tolling operations.

## System Overview

The TCC Toll System records the traffic volume and classification of the vehicles entering the expressway at the plazas. A vehicle will approach the toll booth and pay the appropriate toll to the booth operator. After paying the toll, the driver will continue in the lane and pass over a set of in-road classification sensors. The sensors will be used in conjunction with the Traffic Counter/Classifiers to determine the number and spacing of the axles on the vehicle. Based on the number and the spacing of the axles, the vehicle will be classified by the system.

## Site Diagram



# IRD TCC Toll Audit System

## Benefits

- Revenue maximization through audit control
- Low cost
- Convenient and inexpensive maintenance
- Minimal infrastructure requirement
- Short delivery lead time
- Independent and simple operation

## System Components

IRD typically supplies the following components of the TCC Toll System:

- In-road classification sensors
- Inductive loops
- Traffic Counter/Classifiers
- Plaza computers
- Data collection processing software

IRD provides a complete range of toll systems from the basic TCC Toll Audit System to advanced automated systems.



*IRD Toll Plaza System  
near Bombay, India*



*TCC Traffic Data Collection Unit*

# IRD TCC Toll Audit System

International Road Dynamics, Inc. (IRD) is a highway traffic management products and systems technology company operating in the worldwide Intelligent Transportation Systems (ITS) industry. IRD's corporate headquarters are located in Canada and sales offices, representatives and service facilities are located throughout the world.



IRD's engineers are experts in designing and supplying toll road systems, automated truck weigh station systems, advanced traffic data collection and traffic control systems, freeway management systems and Weigh-in-Motion (WIM) systems. IRD is registered with the ISO 9001 Quality Control program and is committed to "Total Quality" in all areas of expertise, from design and development to manufacturing and installation to long-term service. IRD services range from equipment supply to provision of fully integrated turnkey systems and long term operation, management and service support.

IRD has systems installed worldwide, with major installations in Canada, the United States, South and Central America, Southeast Asia, China, Japan, India, Pakistan, Bangladesh, the Middle East and Europe.

IRD works closely with clients in the design and development of their toll systems, ensuring that the system will meet their particular criteria and expectations.

## Warranty

All of IRD's products and systems are supported by a one year standard warranty.

## Available on request:

- Extended maintenance contract
- Facilities management option
- Financing options



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